

FIG. 1

1 GAGGTCCAGC TTCAGCAGTC TGGACCTGAC CTGGTGAAGC CTGGGGCTTC
 E V Q L Q Q S G P D L V K P G A S
 51 AGTGAAGATA TCCTGCAAGG CTTCTGGTTA CTCATTCACT GGCTACTACA
 V K I S C K A S G Y S F T G Y Y
 101 TGCACTGGGT GAAGCAGAGC CATGGAAAGA GCCTTGAGTG GATTGGACGT
 M H W V K Q S H G K S L E W I G R
 151 ATTAATCCTA ACAATGGTGT TACTCTCTAC AACCAGAAAT TCAAGGACAA
 I N P N N G V T L Y N Q K F K D K
 201 GGCCATATTA ACTGTAGACA AGTCATCCAC CACAGCCTAC ATGGAGCTCC
 A I L T V D K S S T T A Y M E L
 251 GCAGCCTGAC ATCTGAGGAC TCTGCGGTCT ATTACTGTGC AAGATCTACT
 R S L T S E D S A V Y Y C A R S T
 301 ATGATTACGA ACTATGTTAT GGACTIONGG GGTCAAGTAA CCTCAGTCAC
 M I T N Y V M D Y W G Q V T S V T
 351 CGTCTCCTCA GGTGGTGGTG GGAGCGGTGG TGGCGGCACT GGCGGCGGCG
 V S S G G G G S G G G G T G G G
 401 GATCTAGTAT TGTGATGACC CAGACTCCCA CATTCTGCT TGTTCAGCA
 G S S I V M T Q T P T F L L V S A
 451 GGAGACAGGG TTACCATAAC CTGCAAGGCC AGTCAGAGTG TGAGTAATGA
 G D R V T I T C K A S Q S V S N D
 501 TGTAGDITGG TACCAACAGA AGCCAGGGCA GTCTCCTACA CTGCTCATAT
 V A W Y Q Q K P C Q S P T L L I
 551 CCTATACATC CAGTCGCTAC GCTGGAGTCC CTGATCGCTT CATTGGCAGT
 S Y T S S R Y A G V P D R F I G S
 601 GGATATGGGA CGGATTTCAC TTTCACCATC AGCACTTTGC AGGCTGAAGA
 G Y G T D F T F T I S T L Q A E D
 651 CCTGGCAGTT TATTTCTGTC AGCAAGATTA TAATTCTCCT CCGACGTTTC
 L A V Y F C Q Q D Y N S P P T F
 701 GTGGAGGCAC CAAGCTGGAA ATCAAACGG
 G G G T K L E I K R

FIG. 2

ATGGGCCACA CACGGAGGCA GGGAACATCA CCATCCAAGT GTCCATACCT 50
 M G H T R R Q G T S P S K C P Y L
 CAATTTCTTT CAGCTCTTGG TGCTGGCTGG TCTTTCTCAC TTCTGTTTCTCAG 100
 N F F Q L L V L A G L S H F C S
 GTGTTATCCA CGTGACCAAG GAAGTGAAAG AAGTGGCAAC GCTGTCCTGT 150
 G V I H V T K E V K E V A T L S C
 GGTCACAATG TTTCTGTTGA AGAGCTGGCA CAAACTCGCA TCTACTGGCA 200
 G H N V S V E E L A Q T R I Y W Q
 AAAGGAGAAG AAAATGGTGC TGACTATGAT GTCTGGGGAC ATGAATATAT 250
 K E K K M V L T M M S G D M N I
 GGCCCGAGTA CAAGAACCGG ACCATCTTTG ATATCACTAA TAACCTCTCC 300
 W P E Y K N R T I F D I T N N L S
 ATTGTGATCC TGGCTCTGCG CCCATCTGAC GAGGGCACAT ACGAGTGTGT 350
 I V I L A L R P S D E G T Y E C V
 TGTCTGAAG TATGAAAAAG ACGCTTTCAA GCGGGAACAC CTGGCTGAAG 400
 V L K Y E K D A F K R E H L A E
 TGACGTTATC AGTCAAAGCT GACTTCCCTA CACCTAGTAT ATCTGACTTT 450
 V T L S V K A D F P T P S I S D F
 GAAATTCCAA CTTCTAATAT TAGAAGGATA ATTTGCTCAA CCTCTGGAGG 500
 E T P T S N I R R I I C S T S G G
 TTTTCCAGAG CCTCACCTCT CCTGGTTGGA AAATGGAGAA GAATTAAATG 550
 F P E P H L S W I F N G E E L N
 CCATCAACAC AACAGTTTCC CAAGATCCTG AACTGAGCT CTATGCTGTT 600
 A I N T T V S Q D P E T E I Y A V
 AGCAGCAAAC TGGATTTCAA TATGACAACC AACCACAGCT TCATGTGTCT 650
 S S K L D F N M T T N H S F M C L
 CATCAAGTAT GGACATTTAA GAGTGAATCA GACCTTCAAC TGGAATACAA 700
 I K Y G H L R V N Q T F N W N T
 CCAAGCAAGA GCATTTTCCT GATGGAGGCG GGGGATCCGA GGTCCAGCTT 750
 T K Q E H F P D G G G G S E V Q L

CAGCAGTCTG GACCTGACCT GGTGAAGCCT GGGGCTTCAG TGAAGATATC 800
 Q Q S G P D L V K P G A S V K I S
 CTGCAAGGCT TCTGGTTACT CATTCACTGG CTACTACATG CACTGGGTGA 850
 C K A S G Y S F T G Y Y M H W V
 AGCAGAGCCA TGGAAAGAGC CTTGAGTGGA TTGGACGTAT TAATCCTAAC 900
 K Q S H G K S L E W I G R I N P N
 AATGGTGTTA CTCTCTACAA CCAGAAATTC AAGGACAAGG CCATATTAAC 950
 N G V T L Y N Q K F K D K A I L T
 TGTAGACAAG TCATCCACCA CAGCCTACAT GGAGCTCCGC AGCCTGACAT 1000
 V D K S S T T A Y M E L R S L T
 CTGAGCACTC TGCGGTCTAT TACTGTGCAA GATCTACTAT GATTACGAAC 1050
 S E D S A V Y Y C A R S T M I T N
 TATGTTATGG ACTACTGGGC TCAAGTAACC TCAGTCACCG TCTCCTCAGG 1100
 Y V M D Y W G Q V T S V T V S S G
 TGGTGGTGGG AGCGGTGGTG GCGGCACTGC CCGCGGCGGA TCTAGTATTG 1150
 G G G S G G G G T G G G G S S I
 TGATGACCCA GACTCCACCA TTCCTGCTTG TTTCAGCAGG AGACACCCTT 1200
 V M T Q T P T F L L V S A G D R V
 ACCATAACCT GCAAGGCCAG TCAGAGTGTG AGTAATGATG TAGCTTGGTA 1250
 T I T C K A S Q S V S N D V A W Y
 CCAACAGAAG CCAGGGCAGT CTCCTACACT GCTCATATCC TATACATCCA 1300
 Q Q K P G Q S P T L L I S Y T S
 GTCGCTACGC TGGAGTCCCT GATCGCTTCA TTGGCAGTGG ATATGGGACG 1350
 S R Y A G V P D R F I G S G Y G T
 GATTTCACTT TCACCATCAG CACTTTGCAG GCTGAAGACC TGGCAGTTTA 1400
 D F T F T I S T L Q A E D L A V Y
 TTTCTGTCAG CAAGATTATA ATTCTCCTCC GACGTTCGGT GGAGGCACCA 1450
 F C Q Q D Y N S P P T F G G G T
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 K L E I K .

FIG. 2_{CONT'D}

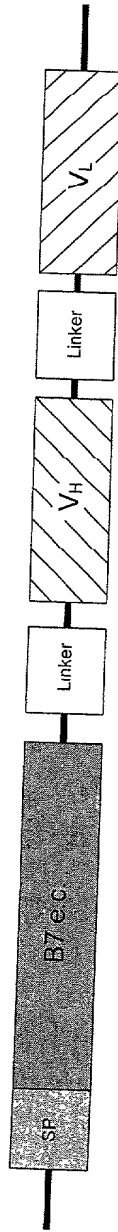


FIG. 3a

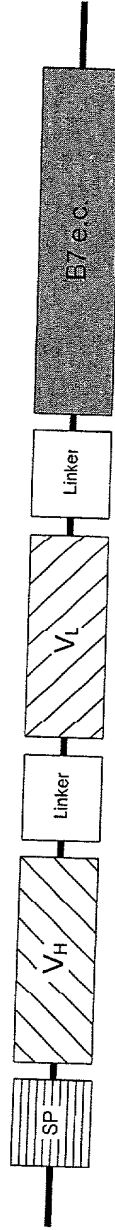


FIG. 3b

1 ATGGGACTGA GTAACATTCT CTTTGTGATG GCCTTCCTGC TCTCTGGTGC
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 51 TGCTCCTCTG AAGATTCAAG CTTATTTCAA TGAGACTGCA GACCTGCCAT
 A P L K I Q A Y F N E T A D L P
 101 GCCAATTTGC AAACCTCTCAA AACCAAAGCC TGAGTGAGCT AGTAGTATTT
 C Q F A N S Q N Q S L S E L V V F
 151 TGGCAGGACC AGGAAAACCTT GGTTCCTGAAT GAGGTATACT TAGGCAAAGA
 W Q D Q E N L V L N E V Y L G K E
 201 GAAATTTGAC AGTGTTCATT CCAAGTATAT GGGCCGCACA AGTTTTGATT
 K F D S V H S K Y M G R T S F D
 251 CGGACAGTTG GACCCTGAGA CTTACAATC TTCAGATCAA GGACAAGGGC
 S D S W T L R L H N L Q I K D K G
 301 TTGTATCAAT GTATCATCCA TCACAAAAAG CCCACAGGAA TGATTGCGAT
 L Y Q C I I H H K K P T G M I R I
 351 CCACCAGATG AATTCTGAAC TGTCAGTGCT TGCTAACTTC AGTCAACCTG
 H Q M N S E L S V L A N F S Q P
 401 AAATAGTACC AATTTCTAAT ATAACAGAAA ATGTGTACAT AAATTTGACC
 E I V P I S N I T E N V Y I N L T
 451 TGCTCATCTA TACACGGTTA CCCAGAACCT AAGAAGATGA GTGTTTTGCT
 C S S I H G Y P E P K K M S V L L
 501 AAGAACCAAG AATTCAACTA TCGAGTATGA TGGTATTATG CAGAAATCTC
 R T K N S T I E Y D G I M Q K S
 551 AAGATAATGT CACAGAACTG TACGACGTTT CCATCAGCTT GTCTGTTTCA
 Q D N V T E L Y D V S I S L S V S
 601 TTCCCTGATG TTACGAGCAA TATGACCATC TTCTGTATTC TGGAAACTGA
 F P D V T S N M T I F C I L E T D
 651 CAAGACCCGG CTTTTATCTT CACCTTTCTC TATAGAGCTT GAGGACCCTC
 K T R L L S S P F S I E L E D P
 701 AGCCTCCCCC AGACCACATT CCTGGAGGCG GGGGATCC
 Q P P P D H I P G G G G S

FIG. 4

FIG. 5

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atggcttgca attgtcagtt gatgcaggat acaccactcc tcaagtttcc atgtccaagg 60
ctcattcttc tctttgtgct gctgattcgt ctttcacaag tgtcttcaga tgttgatgaa 120
caactgtcca agtcagtgaa agataaggta ttgctgcctt gccgttacaa ctctccgcat 180
gaagatgagt ctgaagaccg aatctactgg caaaaacatg acaaagtggg gctgtctgtc 240
attgctggga aactaaaagt gtggcccgag tataagaacc ggactttata tgacaacact 300
acctactctc ttatcatcct gggcctggtc ctttcagacc ggggcacata cagctgtgtc 360
gttcaaaaaga aggaaaqaqg aacgtatqaa gttaaacact tggctttagt aaagttgtcc 420
atcaaagctg acttctctac ccccaacata actgagtctg gaaacccatc tgcagacact 480
aaaaggatta cctgctttgc ttccgggggt ttcccaaagc ctgcttctc ttggttgga 540
aatggaagag aattacctgg catcaatacg acaatttccc aggatcctga atctgaattg 600
tacaccatta gtacccaact agatttcaat acgactegca accacacccat taagtgtctc 660
attaatatg gagatgctca cgtgtcagag gacttcacct gggaaaaacc cccagaagac 720
cctcctgata gcaagcccg ggggtggtgg agcgggtggtg gcggcagtg cggcggcgga 780
actagtgagg tccagcttca gcagctctga cctgacctgg tgaagcctgg ggcttcagtg 840
aagatctccl gcaaggcttc tggttactca ttcactggct actacatgca ctgggtgaag 900
cagagccatg gaaagagcct tgagtggatt ggacgtatta atcctaacaa tgggtgttact 960
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ctggaaatca aacggtaa

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FIG. 6

Leader / 5T4 scFv / HlgG DNA and deduced protein sequence

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CTCGAGCCACCATGGGATGGAGCTGTATCATCCTCTTCTTGGTAGCAACAGCTACAGGTGCCACTCCGAGGTCCAGCTG
M G W S C I I L F L V A T A T G V H S E V Q L

CAGCAGCTGCGACCTGACCTGGTGAAGCCTGGGGCTTCAGTGAAGATATCCTGCAAGGCTTCTGGTTACTCATTCACTGG
Q Q S G P D L V K P G A S V K I S C K A S G Y S F T

CTACTACATGCACTGGGTGAAGCAGAGCCATGGAAAGAGCCTTGAGTGGATTGGACGTATTAATCCTAACAATGGTGTTA
G Y Y M H W V K Q S H G K S L E W I G R I N P N N G V

CTCTCTACAACCAGAAATTCAGGACAAGGCCATATTAAGTGTAGACAAGTCATCCACCACAGCCTACATGGAGCTCCGC
T L Y N Q K F K D K A I L T V D K S S T T A Y M E L R

AGCCTGACATCTGAGGACTCTGCGGTCTATTACTGTGCAAGATCTACTATGATTACGAATATGTTATGGACTACTGGGG
S L T S E D S A V Y Y C A R S T M I T N Y V M D Y W

TCAAGTAACCTTCAGTCAACCGTCTCTTCAGGTGGTGGTGGGAGCGGTGGTGGCGGCACTGGCGGCGGGATCTAGTATTG
G Q V T S V T V S S G G G G S G G G G T G G G G S S I

TGATGACCCAGACTCCACATTCCTGCTTGTTCAGCAGGAGACAGGTTACCATACCTGCAAGGCCAGTCAGAGTGTG
V M T Q T P T F L L V S A G D R V T Y T C K A S Q S V

AGTAATGATGTAGCTTGGTACCAACAGAAGCCAGGGCAGTCTCCTACACTGCTCATATCCTATACATCCAGTCGCTACGC
S N D V A W Y Q Q K P G Q S P T L L I S Y T S S R Y

TCCAGTCCCTCATCGCTTCATTGGCAGTGGATATGGGACGGATTTCACCTTCACCATCAGCACCTTTCAGGCTGAAGACC
A G V P D R F I G S G Y G T D F T F T I S T L Q A E D

TGGCAGTTTATTCTGTGAGCAAGATTATAATTCTCCTCCGACGTTCCGTTGGAGGCCAACAGCTTGAAATCAAACGGGCC
L A V Y F C Q Q D Y N S P P T F G G G T K L E I K R A

TCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCT
S T K G P S V F P L A P S S K S T S G G T A A L G C

GGTCAAGGACTACTTCCCGAACCGGTGACGGTGTCTGTGGAAGTCAAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCGG
L V K D Y F P E P V T V S W N S G A L T S G V H T F P

CTGTCCTACAGTCCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCTCCAGCAGCTTGGGCACCCAGACCTAC
A V L Q Y S S G L Y S S V V T V P S S S L G T Q T Y

ATCTGCAACGTGAATCACAAGCCGACCAACCAAGGTGGACAAGAAAGTTGAGCCCAATCTTGTGACAAAACCTCACAC
I C N V N H K P S N T K V D K K V E P K S C D K T H

ATGCCACCGTGGCCAGCACCTGAATCCTGGGGGACCGTCAGTCTTCTCTTCCCCCAAAACCAAGGACACCCCTCA
T C P P C P A P E L L G G P S V F L F P P K P K D T L

TGATCTCCCGACCCCTGAGGTCACATGCGTGGTGGTGGACGTGAGCCACGAAGACCCCTGAGGTCAAGTTCAACTGGTAC
M I S R T P E V T C V V V D V S H E D P E V K F N W Y

GTGGACGGCGTGGAGGTGCATAATGCCAAGACAAAGCCGCGGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAGCGT
V D G V E V H N A K T K P R E E Q Y N S T Y R V V S

CCTCACCGTCCCTGCACAGGACTGGCTGAATGGCAAGGAGTACAAGTGAAGGTCTCCAACAAGCCCTCCAGCCCCCA
V L T V L H Q D W L N G K E Y F C K V S N K A L P A P

TCGAGAAAACCATCTCCAAAGCCAAAGGGCAGCCCCGAGAACACAGGTGTACACCTGCCCCCATCCCGGGATGAGCTG
I E K T I S K A K G Q P R E P Q V Y T L P P S R D E M

ACCAAGAACCAGGTGAGCTGACCTGCCTGGTCAAAGGCTTCTATCCAGCGACATCGCCGTGGAGTGGGAGAGCAATGG
T K N Q V S L T C L V K G F Y P S D I A V E W E S N

GCAGCCGAGACAACACTACAAGACCAAGCCTCCCGTCTGGACTCCGACGGCTCCTTCTCTCTATAGCAAGCTCACCG
G Q P E N N Y K T T P P V L D S D C S F F L Y S K L T

TGACAAAGAGCAGGTGGCAGCAGGGGAACGTCTTCTCATGCTCCGTGATGCATGAGGCTCTGCACAACCACTACACGCAG
V D K S R W Q Q G N V F S C S V M H E A L H N H Y T Q

AAGAGCCTCTCCCTGTCTCCCGGGTAAATGACTCGAG
K S L S L S P G K

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FIG. 7

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tccactccga ggtccagctg cagcagctcg gacctgacct ggtgaagcct ggggcttcag 120
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FIG. 8

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ctcattcttc tctttgtgct gctgattcgt ctttcacaag tgtcttcaga tgttgatgaa 120
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FIG. 9
CT26-neo Transfectants

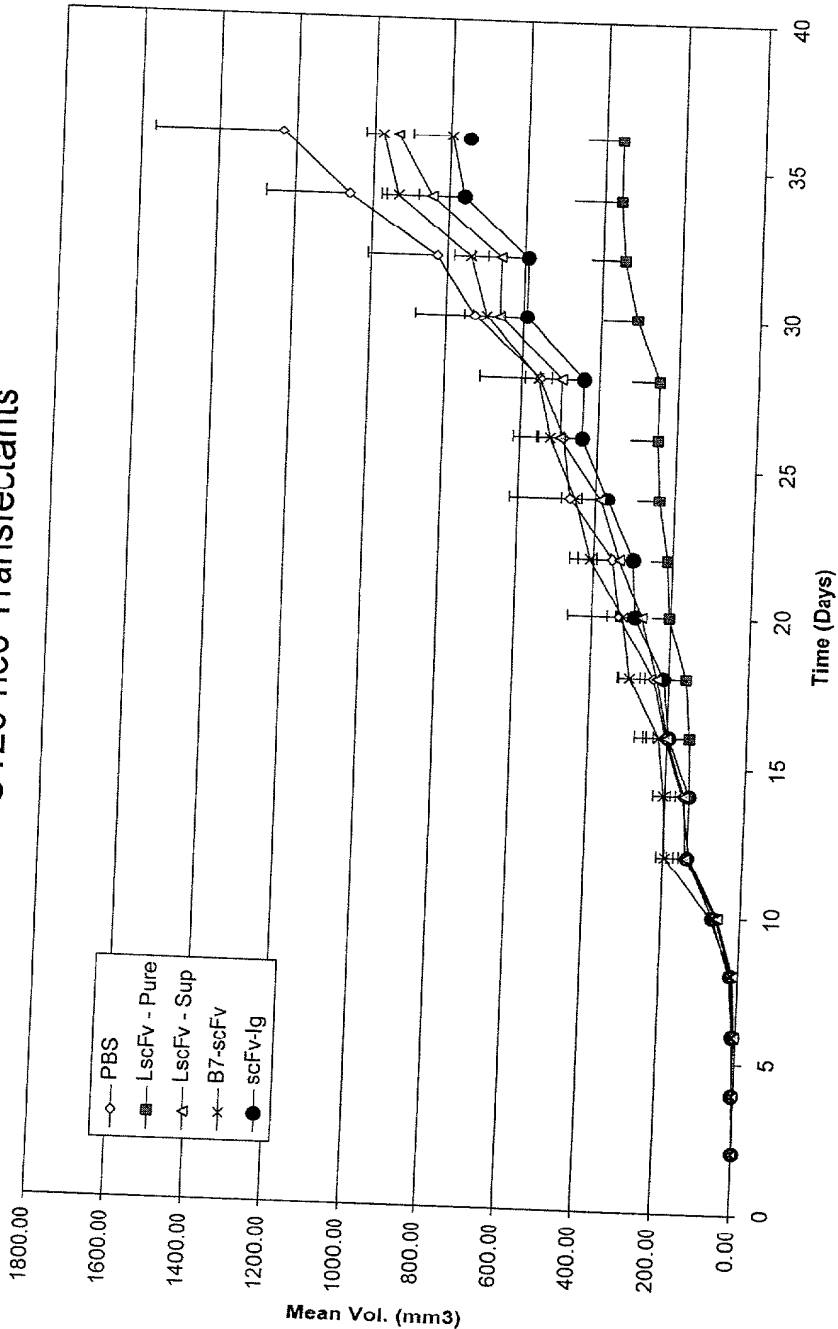


FIG. 10
CT26-h5T4 Transfectants

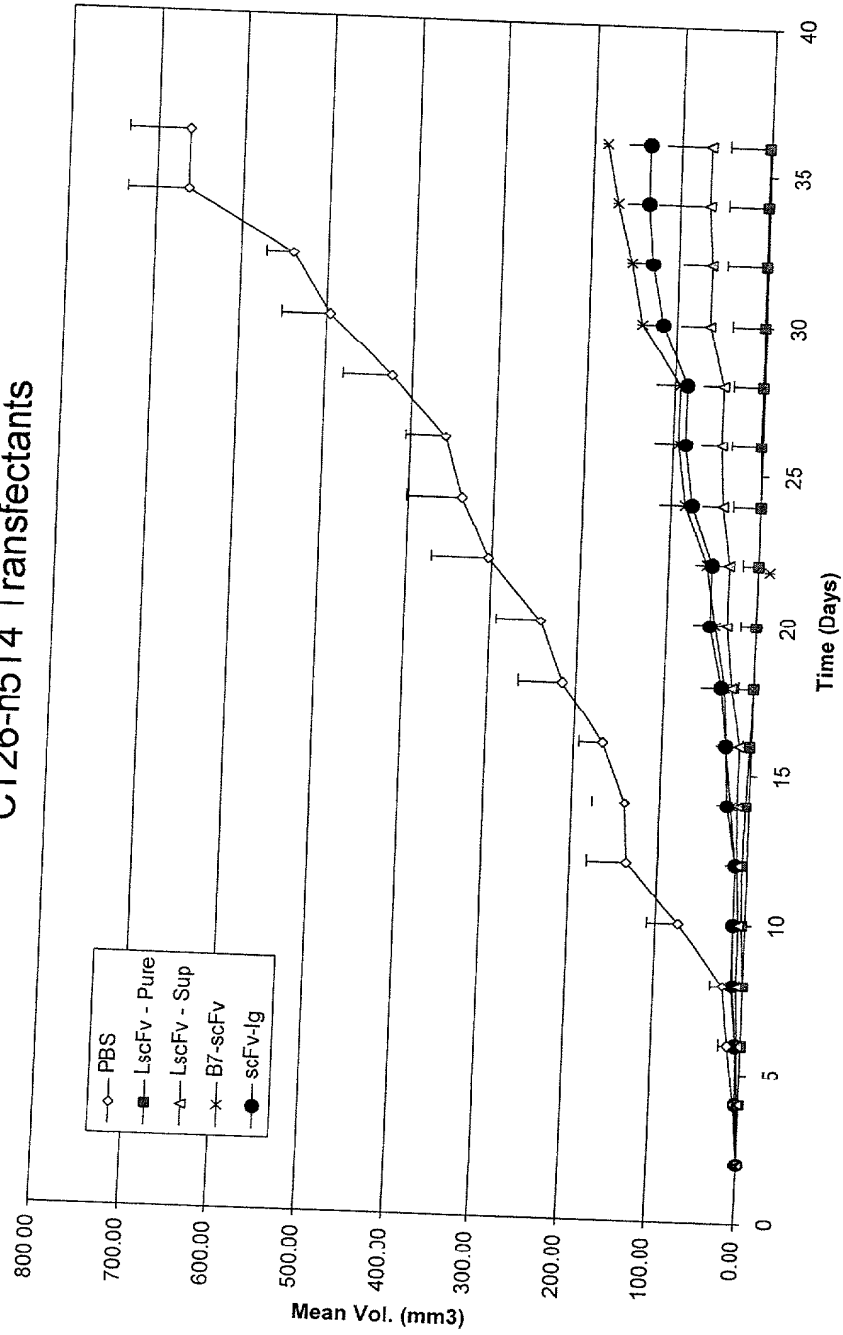


FIG. 11
B16-h5T4 Tumour Growth

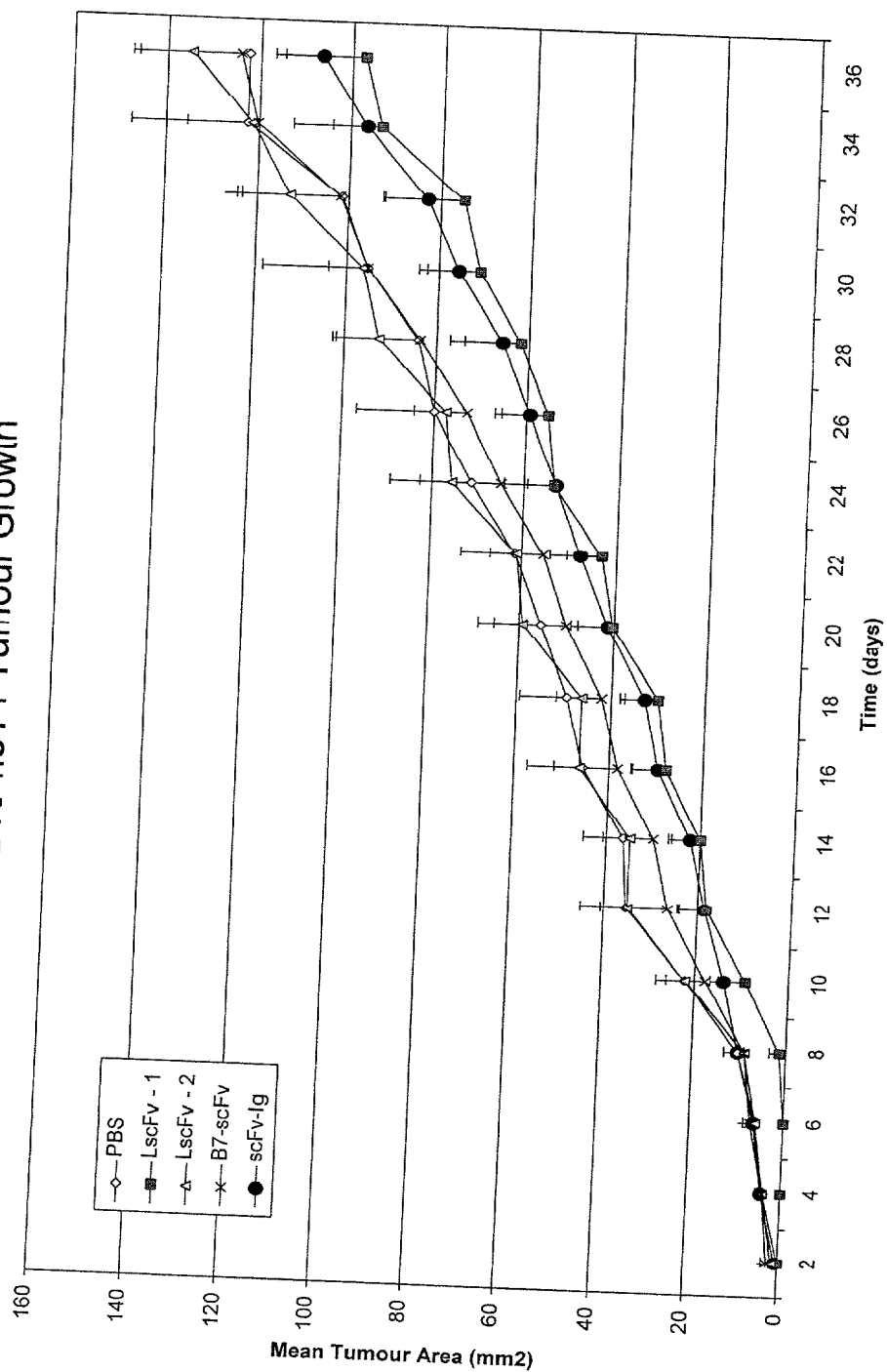
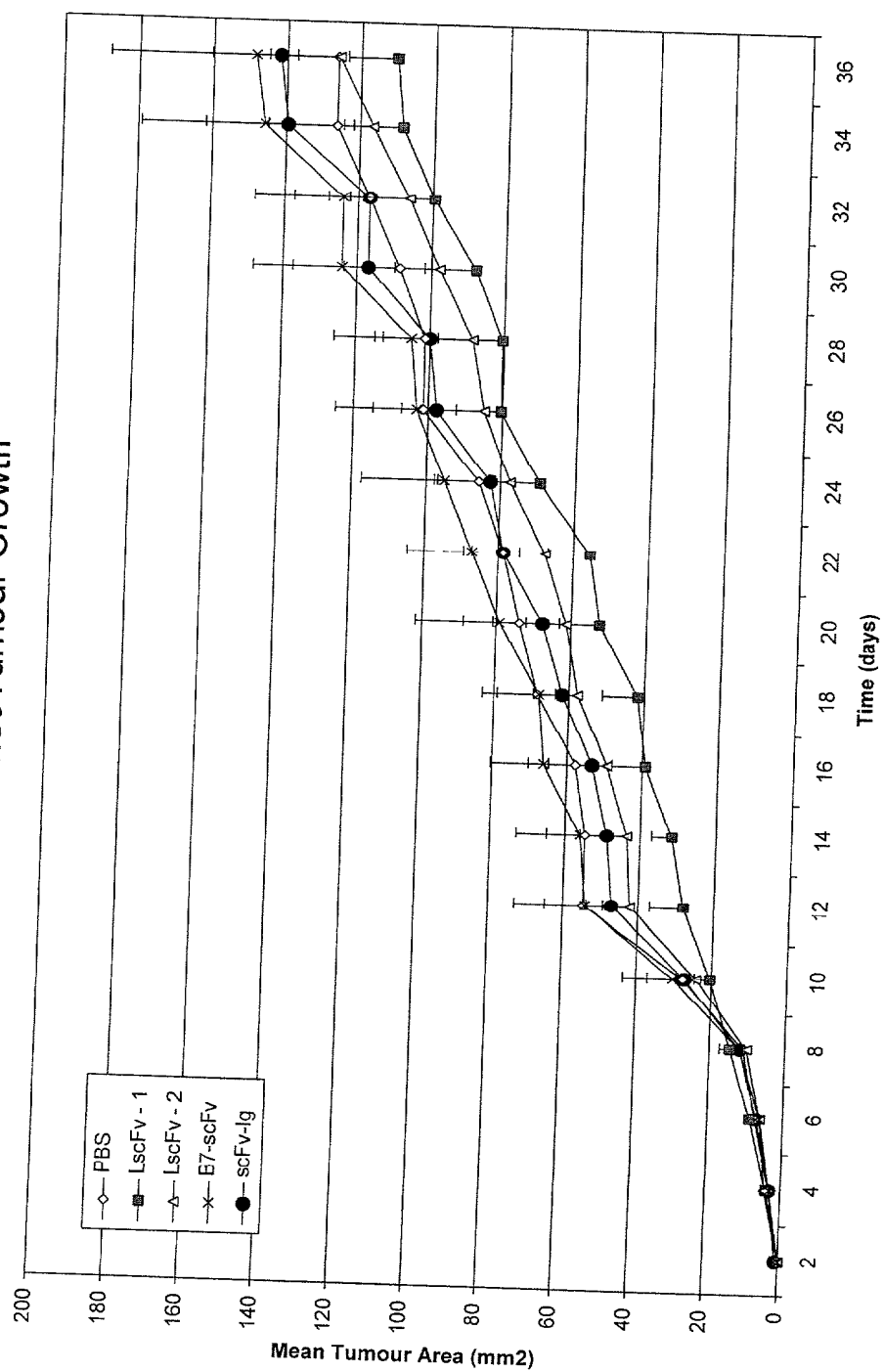


FIG. 12
B16-neo Tumour Growth



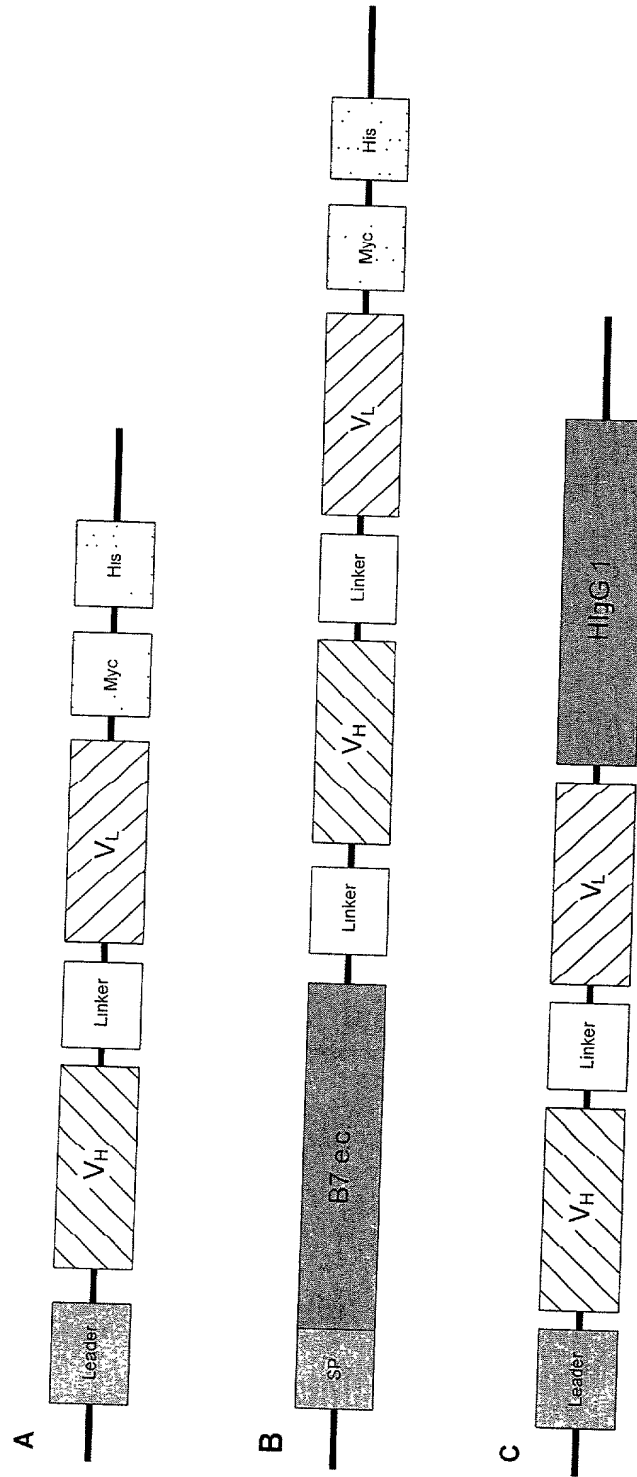


FIG. 13

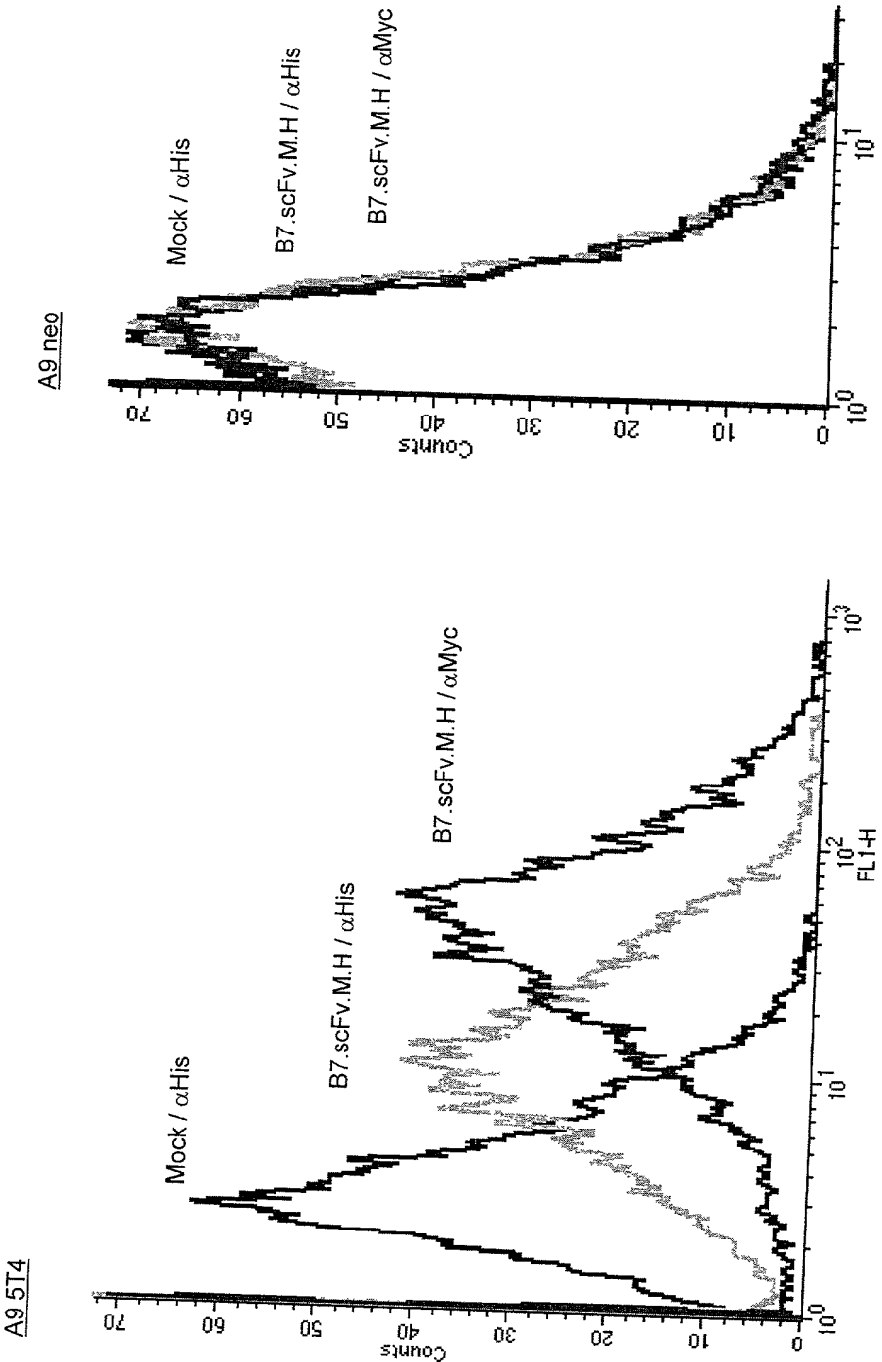
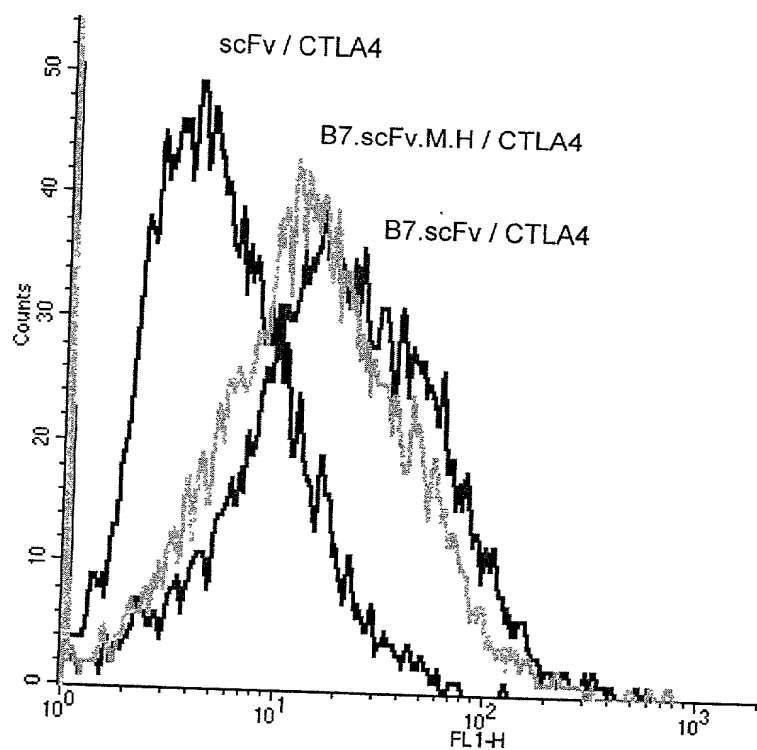


FIG. 14

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FIG. 15

A9 5T4

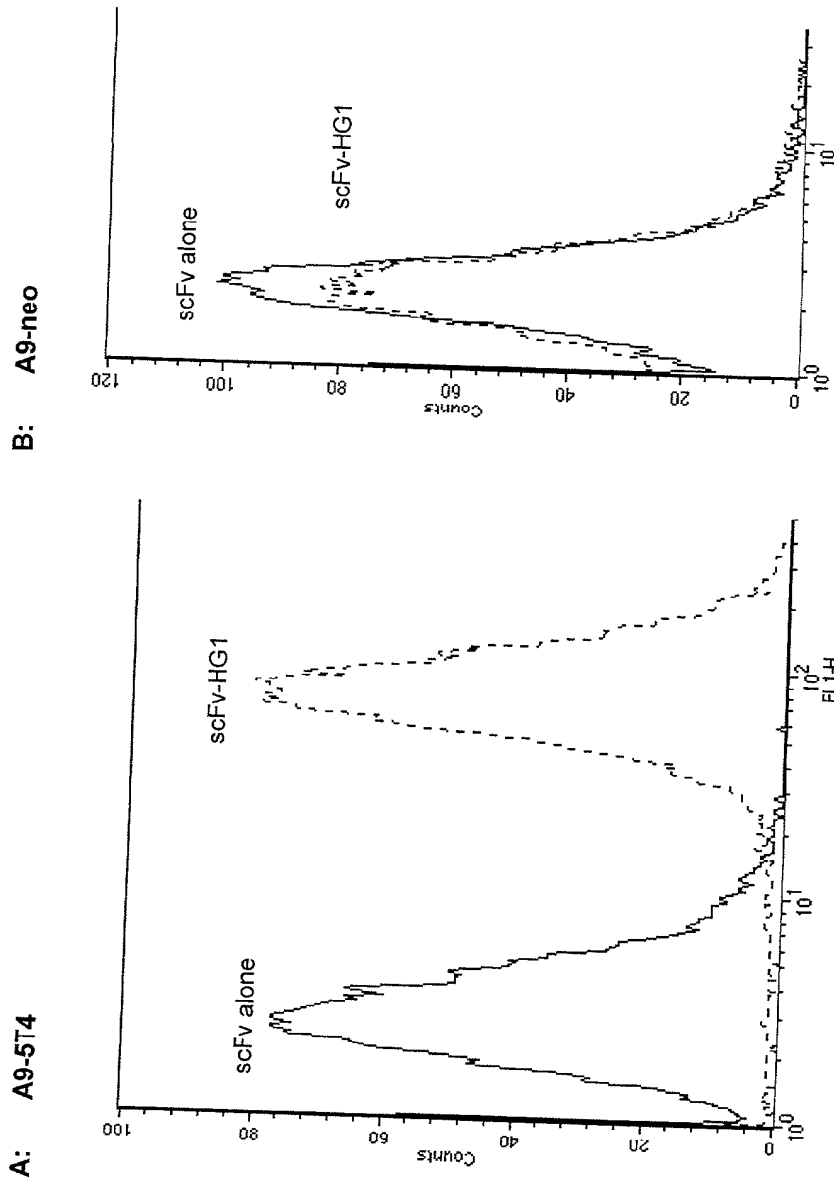


FIG. 16

FIG. 17

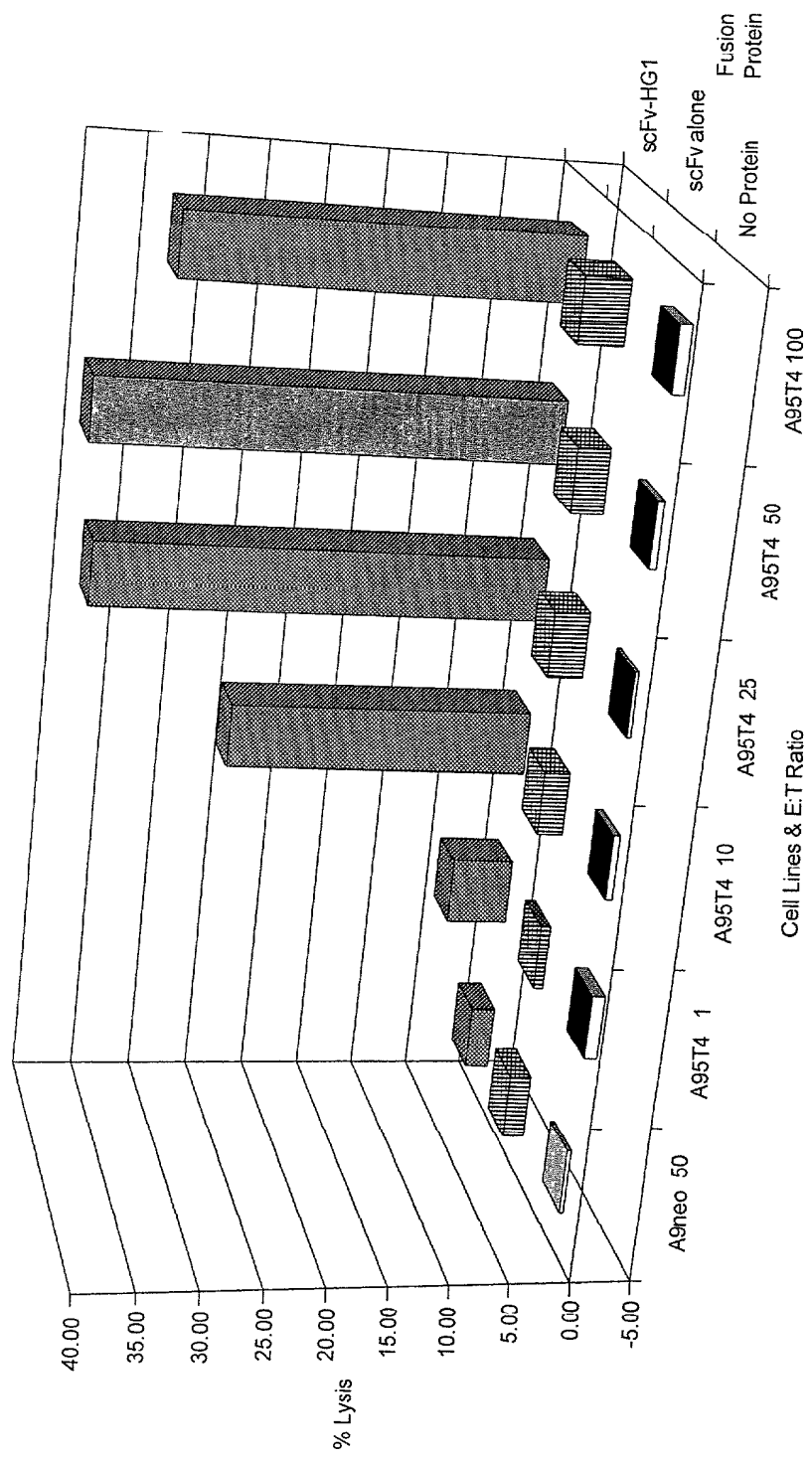


FIG. 18

pONY8.1SM

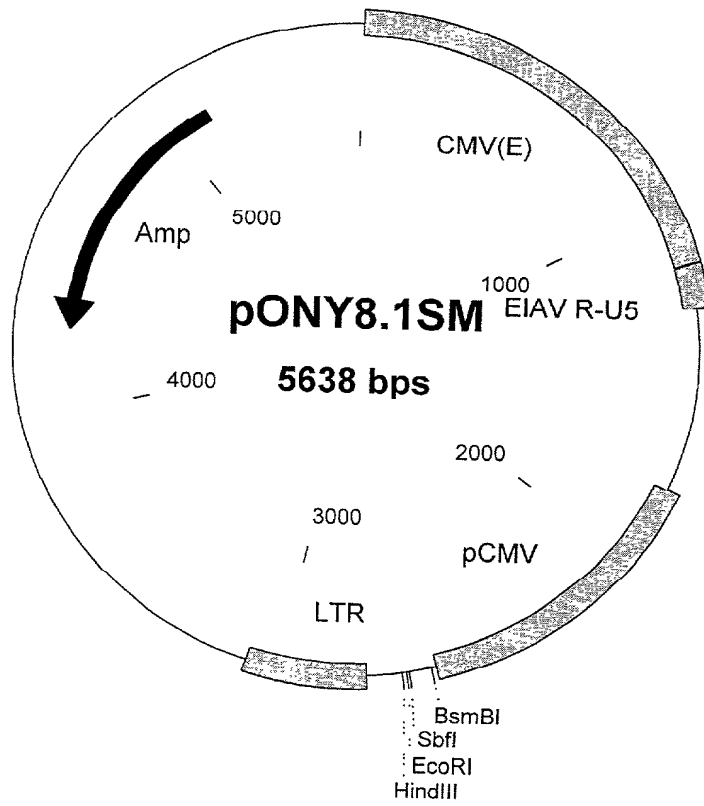
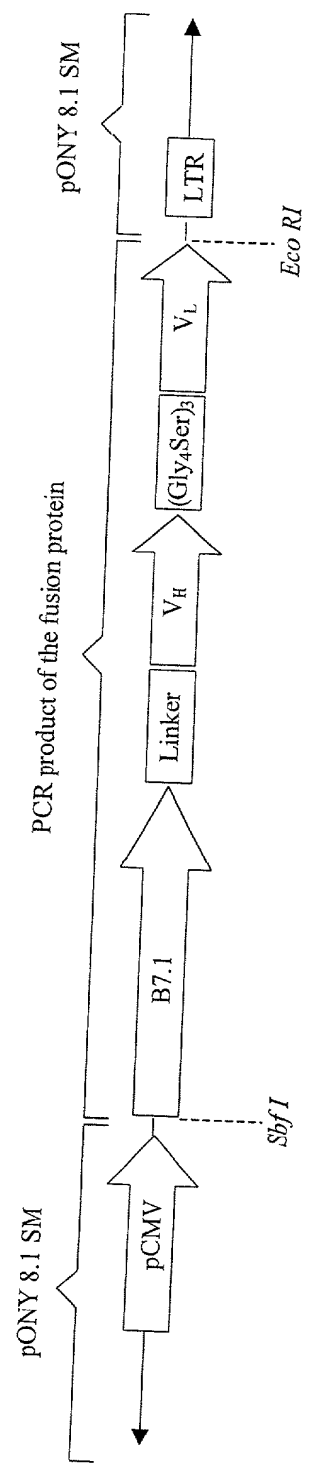


FIG. 19

FUSION PROTEIN CONSTRUCTS IN pONY 8.1 SM

A. B7-5T4scFv



B. L-5T4scFv

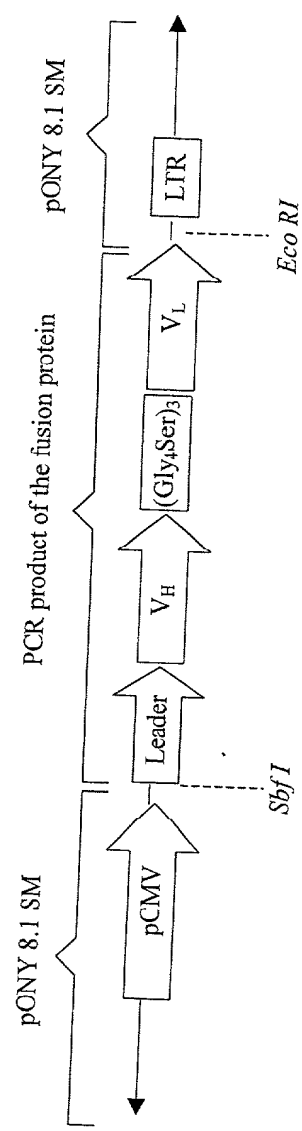


FIG. 20
pKLink – the (Gly₄Ser)₃ linker in pBluescript II SK (pBS II)

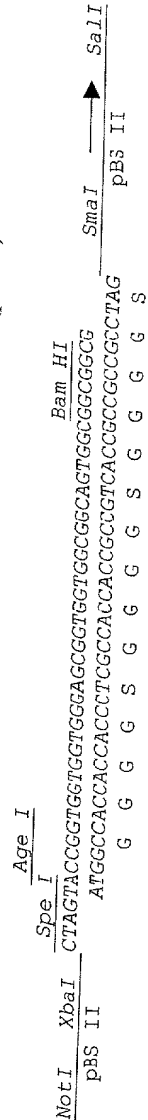


FIG. 21
An scFv and leader sequence in pBSII

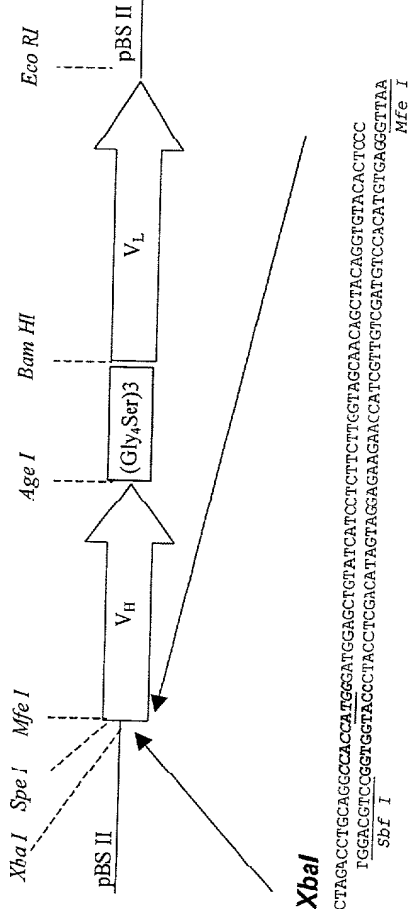


FIG. 22

Leader-II-5 scFv in pONY 8.1 SM

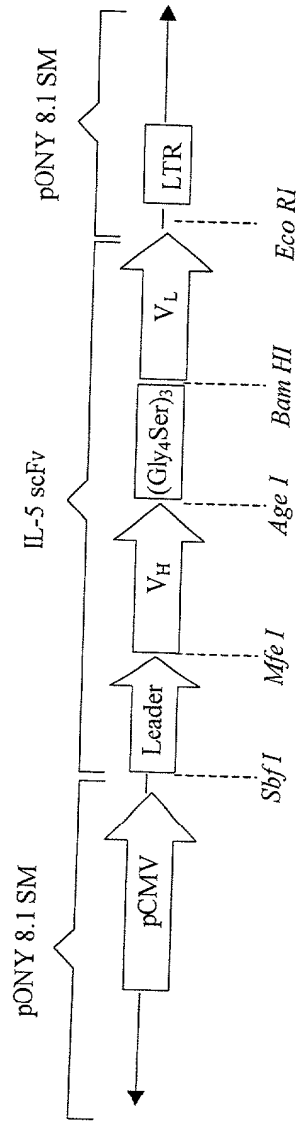


FIG. 23

Leader-HIV gp120 scFv in pONY 8.1 SM

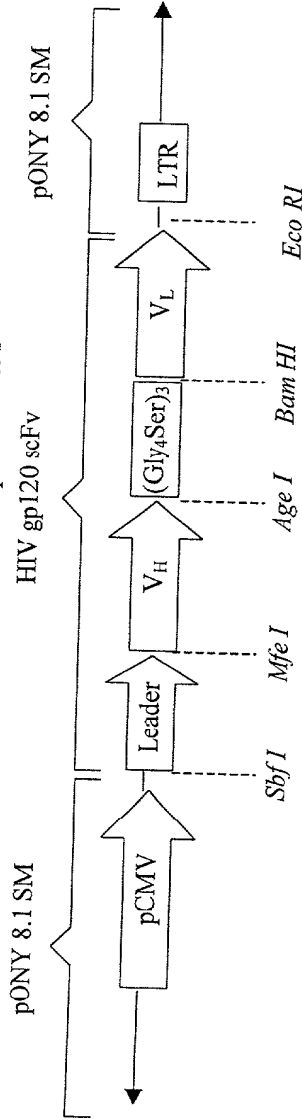


FIG. 24
pAdApt

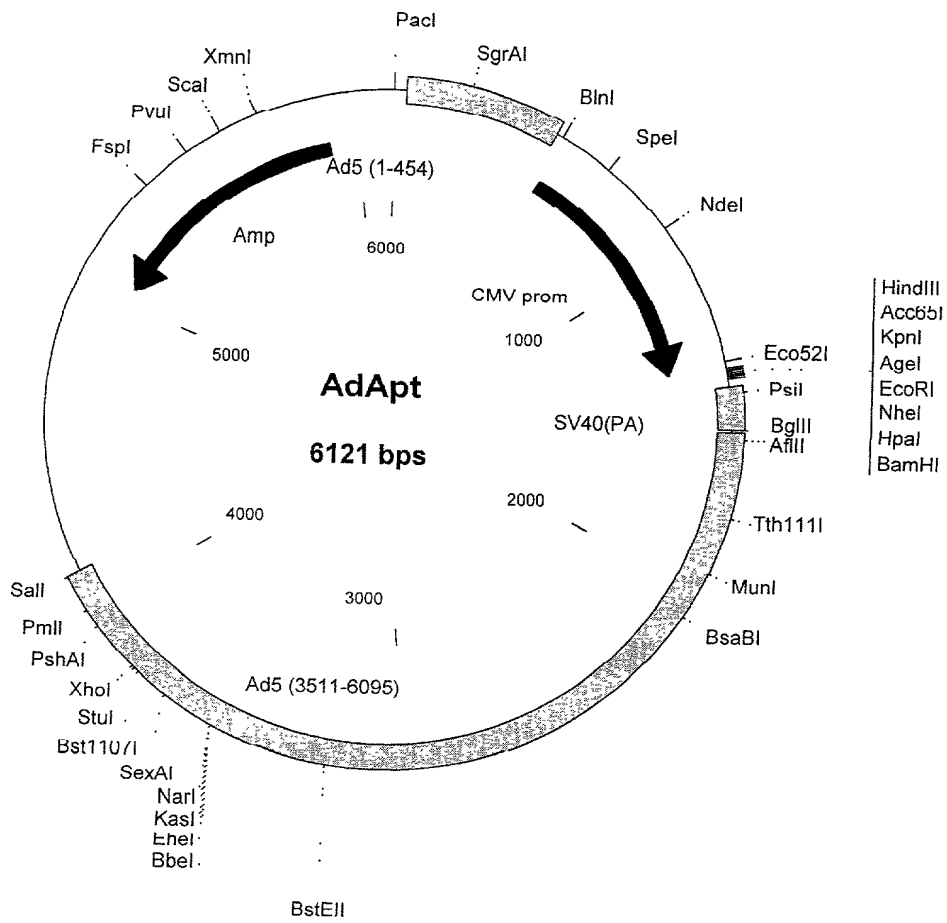
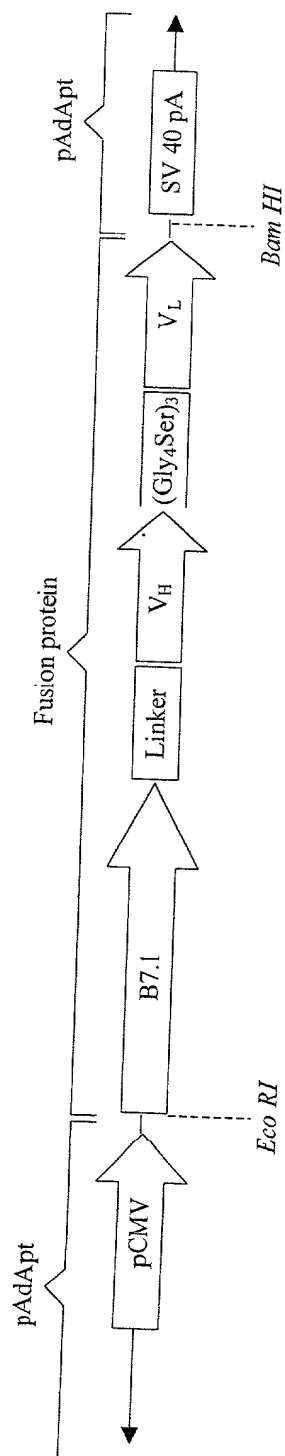


FIG. 25

FUSION PROTEIN CONSTRUCTS IN pAdApt

A. B7-5T4scFv



B. L-5T4scFv

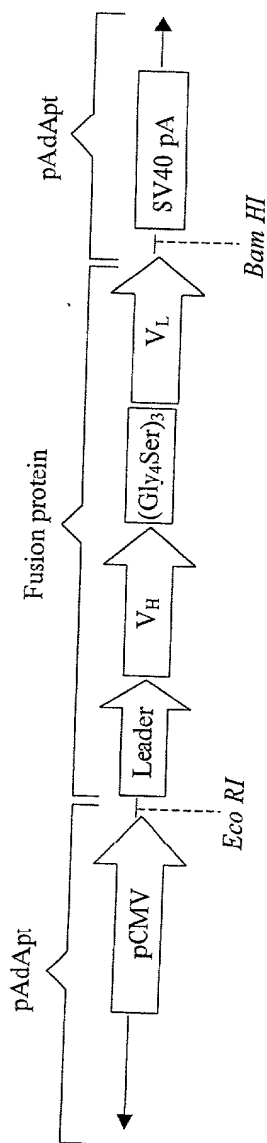


FIG. 26

Canine 5T4 Coding Sequence

ATGCCTGGGGGGTGTCTCCCGGGGCCCCGCCGCGGGGACGGGCGGTTGCGGCTGGCGCGGCTGGCGCTGGTGCTCCTGGG 80
 M P G G C S R G P A A G D G R L R L A R L A L V L L
 CTGGGTCTCCTCGTCTCGTCCCTCACCTCCTGGGCGCCCTCCGCGCCGCTCCACGTGCGCGCGGCTCCGCGGCTCCG 160
 G W V S S S S L T S W A P S A A A S T S P P A S A A S
 CCCCCCCCCGTGCGGGCCAGTGCCCCAGCCTTGCAGTGCTCGGAGGCGGCGCGCACGGTCAAGTGCGTTAACC GC 240
 A P P P L P G Q C P Q P C E C S E A A R T V K C V N R
 AACCTGACCGAGGTGCCCGCGACCTGCCCCCTACGTGCGCAACCTCTTCTCAGGGCAACCAGCTGGCGGTGCTGCC 320
 N L T E V P A D L P F Y V R N L F L T G N Q L A V L
 CCGCGCGCCTTCGCCCCGCGCGCGCGCTGCGGAGCTGGCGCGCTCAACCTGAGCGGCAGCAGCCTGCGGGAGGTGT 400
 P P G A F A R R P P L A E L A A L N L S G S S L R E V
 GCGCGGCGCCTTCGAGCACCTGCCAGCCTGCGCCAGCTCGACCTCAGCCACAACCGCTGGGCAACCTCAGCGCCTTC 480
 C A G A F E H L P S L R Q L D L S H N P L G N L S A F
 GCCTTCGCGGCGAGCGACGCCAGCGCTCGGGCCCCAGCCCCCTGGTGGAGCTGATGCTGAACACATCGTGCCCCCGGA 560
 A F A G S D A S R S G P S P L V E L M L N H I V P P
 CGACCGGCGGAGAACCGGAGCTTCGAGGCGATGGTGGCGGCTGCCCTCCGAGCGGCGCGCGCTTCGCGGGCTGCAGT 640
 D D R R Q N R S F E G M V A A A L R A G R A L R G L Q
 GCCTGGAGCTGGCGGCAACCGCTTCTCTACTTGCTCGCGAGCTCTGGCCAGCTACCGGCGCTCCGGCACCTGGAC 720
 C L E L A G N R F L Y L P R D V L A Q L P G L R H L D
 CTGCGCAACAACTCCCTGGTGAGCCTCACCTACGTGTCTTCCGCAACCTGACGCACTTGGAGAGCCTCCACCTGGAGGA 800
 L R N N S L V S L T Y V S F R N L T H L E S L H L E
 CAACGCCCTCAAGGTCCTTCACAACGCCACCCTGGCGGAGCTGCAGAGCCTGCCCCACGTCCGGGTCTTCTGGACAACA 880
 D N A L K V L H N A T L A E L Q S L P H V R V F L D N
 ACCCTGGGTCTGCGATTGTACATGGCAGACATGGTGGCCTGGCTCAAGGAGACAGAGGTGGTGGCGGCAAGCCGGG 960
 N P W V C D C H M A D M V A W L K E T E V V P G K A G
 CTCACCTGTGCATTCCCGGAGAAAATGAGGAATCGGGCCCTCTTGGAACTCAACAGCTCCACCTGGACTGTGACCCTAT 1040
 L T C A F P E K M R N R A L L E L N S S H L D C D P
 CCTCCCTCCATCCCTGCAGACTTCTTATGTCTTCTAGGTATTGTCTTAGCCCTGATAGGCGCATCTTCTACTGTTT 1120
 I L P P S L Q T S Y V F L G I V L A L I G A I F L L V
 TGTATTGAACCGCAAGGGGATAAAGAAGTGGATGCATAACATCAGAGATGCCTGCAGGGATCACATGGAAGGGTATCAC 1200
 L Y L N R K G I K K W M H N I R D A C R D H M E G Y H
 TACAGATACGAAATCAATGCAGACCCAGGTTAACAAACCTCAGTTCCAATTGGATGTCTGA 1263
 Y R Y E I N A D P R L T N L S S N S D V .